IN THE CLAIMS:

Please amend claim 1:

All other claims presently in the case are presented below for the convenience of the examiner.

(Currently amended) A method of fabricating an electronic device, comprising 1 1. the steps of: 2 providing a coil of conductor and an insulation, said coil of a) 3 conductor having a coil outer surface, said insulation on said coil 4 outer surface; 5 forming openings in portions of said insulation on said coil outer b) 6 surface and exposing conductor in said openings of said coil for 7 external contacts; and 8 dicing completely through said coil to provide a plurality of short c) 9 coils, wherein said dicing step disconnects mechanical connection 10 between adjacent short coils, and wherein each said short coil has 11 at least one said opening in said insulation. 12 (Previously amended) The method as recited in claim 74, wherein said providing 2. 1 step (a) comprises the step of providing a tube and a wire, and winding said wire 2 around said tube. 3 (Previously amended) The method as recited in claim 2, wherein, in said 3. 1 providing step (a), said wire comprises two ends, wherein neither of said ends 2

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extends from said coil for contacting.

1	4.	(Previously amended) The method as recited in claim 1, further comprising the			
2		steps of:			
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4		e) providing a substrate; and			
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6		f) surface mounting said coil to said substrate.			
1	5.	(Previously amended) The method as recited in claim 4, wherein, in said			
2		providing step (e), said substrate comprises a printed circuit board, a ceramic			
3		substrate, a flexible material, or an integrated circuit.			
1	6.	(Previously amended) The method as recited in claim 4, where	in said surface		
2		mounting step (f) comprises the step of electrically connecting	conductor		
3		exposed in said opening in said insulation to said substrate.			
1	7.	(Original) The method as recited in claim 6, further comprising	the step of		
2		providing a solder or conductive polymer, wherein said electric	al connecting step		
3		comprises joining with said solder or said conductive polymer.			
1	8.	(Original) The method as recited in claim 7, wherein said joining	ng step comprises		
2		providing solder paste between said substrate and said conduct	or exposed in said		
3		window and heating to reflow said solder.			
1	9.	(Previously amended) The method as recited in claim 4, further	r comprising the		
2		step of mounting additional electronics on said substrate.			
1	10.	(Original) The method as recited in claim 9, further comprising	the step of		
2		connecting said additional electronics to said coil.			
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1	11.	(Original) The method as recited in claim 10, further comprising the step of		
2		providing a housing for holding said coil, said substrate, and said additional		
3		electronics.		
1	12.	(Original) The method as recited in claim 11, further comprising the step of		
2		hermetically sealing said housing.		
1	13.	(Original) The method as recited in claim 11, further comprising the step of		
2		providing pins for external connection through said housing.		
1	14.	(Previously amended) The method as recited in claim 11, wherein said coil and		
2		said additional electronics comprise a sensor.		
1	15.	(Original) The method as recited in claim 14, wherein said sensor comprises a		
2		variable reluctance transducer.		
1	16.	(Original) The method as recited in claim 14, wherein said sensor is for		
2		measuring strain, displacement, acceleration, force, or pressure.		
1	17.	(Original) The method as recited in claim 14, further comprising the step of		
2		providing a circuit to correct for temperature variation.		
1	18.	(Previously amended) The method as recited in claim 17, wherein said circuit i		
2		integrated within said housing.		
1	10	(Previously amended) The method as recited in claim 17, wherein said circuit i		

located within signal conditioning electronics separate from said housing.

(Original) The method as recited in claim 9, wherein said additional electronics 1 20. provides excitation or synchronous demodulation. 2 (Previously amended) The method as recited in claim 9, wherein said additional 21. 1 electronics converts an ac waveform to a dc voltage. 2 (Previously amended) The method as recited in claim 1, further comprising the 1 22. step of enclosing said coil in a housing and hermetically sealing said housing. 2 (Previously amended) The method as recited in claim 1, wherein said step of 23. 1 forming openings in portions of said insulation comprises laser ablating said 2 insulation. 3 (Previously amended) The method as recited in claim 23, wherein said step of 24. 1 laser ablating said insulation, comprises directing light from a laser on said 2 insulation. 3 (Previously amended) The method as recited in claim 23, wherein said coil 25. 1 comprises a plurality of turns of said wire and wherein said step of laser ablating 2 said insulation comprises opening said insulation over a plurality of said turns of 3 wire. 4 (Previously amended) The method as recited in claim 23, wherein said step of 26. 1 laser ablating said insulation comprises ablating a ring shaped opening in said 2 insulation. 3 (Original) The method as recited in claim 1, wherein said insulation comprises 27. 1

polyimide.

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step of providing a structure for holding position of said core within said tube. 2 1 29. (Previously amended) The method as recited in claim 28, further comprising the step of providing a structure for resetting position of said core within said tube. 2 30. (Previously amended) The method as recited in claim 29, wherein said structure 1 2 for resetting position of said core within said tube comprises an electronically controllable clamp. 3 31. (Original) The method as recited in claim 30, wherein said electronically controllable clamp comprises a shape memory alloy. 32. (Previously amended) The method as recited in claim 29, wherein said structure for resetting position of said core further comprises a spring so said core can snap to a new position when said clamp is released. 3 72. (Previously added) The method as recited in claim 1, wherein said step of 1 2 forming openings in portions of said insulation comprises abrading said 3 insulation. 73. (Previously added) The method as recited in claim 1, wherein said step of 1 forming openings in portions of said insulation comprises chemically etching said insulation. 74. (Previously added) The method as recited in claim 1, wherein said providing step 1 2 (a) comprises providing said coil of conductor and said insulation on a tube.

(Previously amended) The method as recited in claim 75, further comprising the

1	75 .	(Previously added) The method as recited in claim 74, further comprising the		
2		step of providing a movable core within said tube for adjusting inductance of said		
3		coil.		
1	7 6.	(Previously added) The method as recited in claim 75, further comprising the		
2		steps of:		
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4		e) providing a substrate; and		
5				
6		f) surface mounting said coil to said substrate.		
1	77.	(Previously added) The method as recited in claim 76, wherein, in said providing		
2 🗸		step (e), said substrate comprises a printed circuit board, a ceramic substrate, a		
3		flexible material, or an integrated circuit.		
1	78.	(Previously added) The method as recited in claim 76, wherein said surface		
2		mounting step (f) comprises the step of electrically connecting conductor		
3		exposed in said opening in said insulation to said substrate.		
1	79 .	(Previously added) The method as recited in claim 78, further comprising the		
2		step of providing a solder or conductive polymer, wherein said electrical		

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connecting step comprises joining with said solder or said conductive polymer.

(Previously added) The method as recited in claim 79, wherein said joining step

comprises providing solder paste between said substrate and said conductor

exposed in said window and heating to reflow said solder.

(Previously added) The method as recited in claim 76, further comprising the 81. 1 step of mounting additional electronics on said substrate. 2 (Previously added) The method as recited in claim 81, further comprising the 82. 1 step of connecting said additional electronics to said coil. 2 (Previously added) The method as recited in claim 82, further comprising the 83. 1 step of providing a housing for holding said coil, said substrate, and said 2 additional electronics. 3 (Previously added) The method as recited in claim 83, further comprising the 84. 1 step of hermetically sealing said housing. (Previously added) The method as recited in claim 83, further comprising the 85. 1 step of providing pins for external connection through said housing. 2 (Previously added) The method as recited in claim 83, wherein said coil and said 86. 1 additional electronics comprise a sensor. 2 (Previously added) The method as recited in claim 86, wherein said sensor 87. 1 comprises a variable reluctance transducer. 2 (Previously added) The method as recited in claim 86, wherein said sensor is for 88. 1 measuring strain, displacement, acceleration, force, or pressure. 2

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step of providing a circuit to correct for temperature variation.

(Previously added) The method as recited in claim 86, further comprising the

(Previously added) The method as recited in claim 89, wherein said circuit is 90. 1 integrated within said housing. 2 (Previously added) The method as recited in claim 89, wherein said circuit is 91. 1 located within signal conditioning electronics separate from said housing. 2 (Previously added) The method as recited in claim 81, wherein said additional 1 92. electronics provides excitation or synchronous demodulation. 2 (Previously added) The method as recited in claim 81, wherein said additional 93. 1. electronics converts an ac waveform to a dc voltage. (Previously added) The method as recited in claim 75, further comprising the 94. 1 step of enclosing said coil in a housing and hermetically sealing said housing. 2 (Previously added) The method as recited in claim 75, wherein said step of 1 95. forming openings in portions of said insulation comprises laser ablating said 2 insulation. 3 (Previously added) The method as recited in claim 95, wherein said step of laser 96. 1 ablating said insulation, comprises directing light from a laser on said insulation. 2

comprises an excimer laser.

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(Previously added) The method as recited in claim 96, wherein said laser

98. (Previously added) The method as recited in claim 95, wherein said coil comprises a plurality of turns of said wire and wherein said step of laser ablating said insulation comprises opening said insulation over a plurality of said turns of wire.

1 99. (Previously added) The method as recited in claim 95, wherein said step of laser
2 ablating said insulation comprises ablating a ring shaped opening in said
insulation.

(Previously added) The method as recited in claim 2, wherein said wire comprises an insulated wire and said step (a) comprises winding said insulated wire around said tube.

1 101. (Previously added) The method as recited in claim 24, wherein said laser comprises an excimer laser.

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Docket No. 1024-035

3	102.	(Currently amended) A method of fabricating an electronic device, comprising in				
4		order, the steps of:				
5		a)	providing a coil of conductor and an insulation, said coil of			
6			conductor having a coil outer surface, said insulation on said coil			
7			outer surface; ;			
8		b)	forming openings in portions of said insulation on said coil outer			
9			surface and exposing conductor in said openings of said coil for			
10			external contacts;			
1 1		c)	dicing through said coil to provide a plurality of short coils,			
12			wherein each said short coil has at least one said opening in said			
13			insulation;			
14		d)	providing a substrate;			
15		e)	surface mounting said coil to said substrate;			
16		f)	mounting additional electronics on said substrate;			
17		g)	connecting said additional electronics to said coil; and			
18		h)	providing a housing for holding said coil, said substrate, and said			
19		•	additional electronics.			

a)

1 103. (Currently amended) A method of fabricating an electronic device, comprising in order, the steps of:

providing a coil of conductor, an insulation, and a tube, said coil of conductor having a coil outer surface, said insulation on said coil outer surface, wherein said tube has a tube outer surface and wherein said coil of conductor and said insulation are on said tube outer surface;

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- b) forming openings in portions of said insulation on said coil outer surface and exposing conductor of said coil for contacts;

10 11 12 c) dicing through said coil to provide a plurality of short coils,
wherein each said short coil has at least one said opening in said
insulation; and

13 14 d) providing a movable core within said tube for adjusting inductance of said coil.